BRUHAT BANGALORE MAHANAGARA PALIKE

ME OF WORK:- Restoration and Improvements of Balance roads of Chowdeshwari layout, Mariyappa layout, niraju layout, jyothinagara 1st main road, Deo Marvel layout, Sainagara phase-1 and surrounding areas in ward no - f Yelahanka New town Sub division (PACKAGE NO-13) (Number of Works-03)

Estimation Cost.Rs 110000000.00

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 8km lead= 57+2.0x1.28x8 =77.48								
	For Drain								
	Muniraju Layout								
	Main Road (WO294)	Cum	2	139.90	1.20	0.90	302.18		
	3rd Cross Road (WO521)	Cum	2	72.60	1.20	0.90	156.82		
	2nd Cross Road (W0523)	Cum	2	64.70	1.30	0.90	151.40		
	1st Cross Road (WO525)	Cum	2	51.50	1.20	0.90	111.24		
	4th Cross Road (W0517)	Cum	2	79.60	1.20	0.90	171.94		
	1st Cross Road (WO525)	Cum	2	58.90	1.20	0.90	127.22		
	2nd Cross Road(W0523)	Cum	2	65.50	1.30	0.90	152.78		
	3rd Cross Road (WO521)	Cum	2	55.60	1.20	0.90	120.10		
	4th Cross Road (W0517)	Cum	2	47.00	1.25	0.90	105.75		
	Cross Road	Cum	2	31.50	1.20	0.90	68.04		
	Deo Marvel Layout								
	6th Cross Road (W0137)	Cum	2	57.50	1.30	0.90	134.55		
	7th Cross Road (W0135)	Cum	2	68.70	1.20	0.90	148.39		
	8th Cross Road (W0133)	Cum	2	82.50	1.20	0.90	178.20		
	9th Cross Road (W0129)	Cum	2	88.00	1.20	0.90	190.08		
	10th Cross Road (Wo125)	Cum	2	62.50	1.20	0.90	135.00		
	11th Cross Road (W0119)	Cum	2	66.70	1.20	0.90	144.07		
	12th Cross Road (W0113)	Cum	2	45.40	1.20	0.90	98.06		
	5th main road	Cum	1	127.40	1.20	0.90	137.59		
	4th Cross Road (WO143)	Cum	1	251.40	1.30	0.90	294.14		
	3rd Main Road (W0088)	Cum	2	188.10	1.20	0.90	406.30		
	4th Main Road	Cum	1	253.00	1.30	0.90	296.01		
	5th Cross Road (W0147)	Cum	2	82.70	1.20	0.90	178.63		
	3rd Main 3rd Cross Road (W0157)	Cum	1	143.60	1.30	0.90	168.01		
	2nd Main Road (W0090)	Cum	2	92.80	1.20	0.90	200.45		
	3rd Main 2nd Cross Road (W0171)	Cum	2	100.20	1.20	0.90	216.43		
	1st Main Road	Cum	1	30.70	1.20	0.90	33.16		
	Site No328 to 327	Cum	1	35.70	1.20	0.90	38.56		
	1st A cross road	Cum	2	83.80	1.30	0.90	196.09		
	Atturu Lake Road	Cum	1	413.90	1.20	0.90	447.01		
	Kempanahalli Road	Cum	2	426.00	1.30	0.90	996.84		
	CQAL Layout								
	1st Cross Road	Cum	1	55.40	1.20	0.90	59.83		
	2nd Main Road	Cum	2	469.80	1.30	0.90	1099.33		
	5th Cross Road (Temple road)	Cum	2	34.70	1.20	0.90	74.95		
	4th Cross Road	Cum	1	56.10	1.30	0.90	65.64		
	3rd Cross Road	Cum	2	51.10	1.30	0.90	119.57		
	2nd Cross Road	Cum	2	42.80	1.20	0.90	92.45		

Description of work	Unit	Mesurement				Qty	Rate	Amount
		No.	L	B	D			
3rd Main Road	Cum	2	206.20	1.20	0.90	445.39		
For Culvert								
Muniraju Layout								
Main Road	Cum	9	5.80	1.70	0.80	70.99		
Kempanahalli road	Cum	2	4.90	1.70	0.90	14.99		
Deo Marvel Layout								
3rd Main Road (W0088)	Cum	5	9.70	1.70	0.85	70.08		
	Cum	1	13.00	1.70	0.90	19.89		
4th Main Road	Cum	8	8.05	1.70	0.85	93.06		
5th Cross Road (W0147)	Cum	1	13.20	1.70	0.80	17.95		
3rd Main 3rd Cross Road (W0157)	Cum	1	10.00	1.70	0.85	14.45		
	Cum	4	6.00	1.70	0.90	36.72		
Basic rate	130.00							
Area weightage 6%	7.80							
8Km lead & Lift= 57+(2*1.28*8)	77.48							
Sub Total	**215.28**							
Total						**8400.34**	**215.28**	**1808426.00**

KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No. 4.3)

For Drain								
Muniraju Layout								
Main Road (WO294)	Cum	2	139.90	1.20	0.15	50.36		
3rd Cross Road (WO521)	Cum	2	72.60	1.20	0.15	26.14		
2nd Cross Road (W0523)	Cum	2	64.70	1.30	0.15	25.23		
1st Cross Road (WO525)	Cum	2	51.50	1.20	0.15	18.54		
4th Cross Road (W0517)	Cum	2	79.60	1.20	0.15	28.66		
1st Cross Road (WO525)	Cum	2	58.90	1.20	0.15	21.20		
2nd Cross Road(W0523)	Cum	2	65.50	1.30	0.15	25.46		
3rd Cross Road (WO521)	Cum	2	55.60	1.20	0.15	20.02		
4th Cross Road (W0517)	Cum	2	47.00	1.25	0.15	17.63		
Cross Road	Cum	2	31.50	1.20	0.15	11.34		
Deo Marvel Layout								
6th Cross Road (W0137)	Cum	2	57.50	1.30	0.15	22.43		
7th Cross Road (W0135)	Cum	2	68.70	1.20	0.15	24.73		
8th Cross Road (W0133)	Cum	2	82.50	1.20	0.15	29.70		
9th Cross Road (W0129)	Cum	2	88.00	1.20	0.15	31.68		
10th Cross Road (Wo125)	Cum	2	62.50	1.20	0.15	22.50		
11th Cross Road (W0119)	Cum	2	66.70	1.20	0.15	24.01		
12th Cross Road (W0113)	Cum	2	45.40	1.20	0.15	16.34		
5th main road	Cum	1	127.40	1.20	0.15	22.93		
4th Cross Road (WO143)	Cum	1	251.40	1.30	0.15	49.02		
3rd Main Road (W0088)	Cum	2	188.10	1.20	0.15	67.72		
4th Main Road	Cum	1	253.00	1.30	0.15	49.34		
5th Cross Road (W0147)	Cum	2	82.70	1.20	0.15	29.77		
3rd Main 3rd Cross Road (W0157)	Cum	1	143.60	1.30	0.15	28.00		
2nd Main Road (W0090)	Cum	2	92.80	1.20	0.15	33.41		

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	3rd Main 2nd Cross Road (W0171)	Cum	2	100.20	1.20	0.15	36.07		
	1st Main Road	Cum	1	30.70	1.20	0.15	5.53		
	Site No328 to 327	Cum	1	35.70	1.20	0.15	6.43		
	1st A cross road	Cum	2	83.80	1.30	0.15	32.68		
	Atturu Lake Road	Cum	1	413.90	1.20	0.15	74.50		
	Kempanahalli Road	Cum	2	426.00	1.30	0.15	166.14		
	CQAL Layout								
	1st Cross Road	Cum	1	55.40	1.20	0.15	9.97		
	2nd Main Road	Cum	2	469.80	1.30	0.15	183.22		
	5th Cross Road (Temple road)	Cum	2	34.70	1.20	0.15	12.49		
	4th Cross Road	Cum	1	56.10	1.30	0.15	10.94		
	3rd Cross Road	Cum	2	51.10	1.30	0.15	19.93		
	2nd Cross Road	Cum	2	42.80	1.20	0.15	15.41		
	3rd Main Road	Cum	2	206.20	1.20	0.15	74.23		
	For Culvert								
	Muniraju Layout								
	Main Road	Cum	9	5.80	1.70	0.15	13.31		
	Kempanahalli road	Cum	2	4.90	1.70	0.15	2.50		
	Deo Marvel Layout								
	3rd Main Road (W0088)	Cum	5	9.70	1.70	0.15	12.37		
		Cum	1	13.00	1.70	0.15	3.32		
	4th Main Road	Cum	8	8.05	1.70	0.15	16.42		
	5th Cross Road (W0147)	Cum	1	13.20	1.70	0.15	3.37		
	3rd Main 3rd Cross Road (W0157)	Cum	1	10.00	1.70	0.15	2.55		
		Cum	4	6.00	1.70	0.15	6.12		
	Basic rate	5301.69							
	Area weightage 6%	318.10							
	Sub Total	**5619.79**							
	Total						**1403.65**	**5619.79**	**7888228.00**
3	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	Drain Bottom Raft								
	Muniraju Layout								
	Main Road (WO294)	Cum	2	139.90	1.10	0.15	46.17		
	3rd Cross Road (WO521)	Cum	2	72.60	1.10	0.15	23.96		
	2nd Cross Road (W0523)	Cum	2	64.70	1.10	0.15	21.35		
	1st Cross Road (WO525)	Cum	2	51.50	1.10	0.15	17.00		
	4th Cross Road (W0517)	Cum	2	79.60	1.10	0.15	26.27		
	1st Cross Road (WO525)	Cum	2	58.90	1.10	0.15	19.44		
	2nd Cross Road(W0523)	Cum	2	65.50	1.10	0.15	21.62		
	3rd Cross Road (WO521)	Cum	2	55.60	1.10	0.15	18.35		
	4th Cross Road (W0517)	Cum	2	47.00	1.10	0.15	15.51		

Description of work	Unit	Mesurement				Qty	Rate	Amount
		No.	L	B	D			
Cross Road	Cum	2	31.50	1.10	0.15	10.40		
Deo Marvel Layout								
6th Cross Road (W0137)	Cum	2	57.50	1.10	0.15	18.98		
7th Cross Road (W0135)	Cum	2	68.70	1.10	0.15	22.67		
8th Cross Road (W0133)	Cum	2	82.50	1.10	0.15	27.23		
9th Cross Road (W0129)	Cum	2	88.00	1.10	0.15	29.04		
10th Cross Road (Wo125)	Cum	2	62.50	1.10	0.15	20.63		
11th Cross Road (W0119)	Cum	2	66.70	1.10	0.15	22.01		
12th Cross Road (W0113)	Cum	2	45.40	1.10	0.15	14.98		
5th main road	Cum	1	127.40	1.10	0.15	21.02		
4th Cross Road (WO143)	Cum	1	251.40	1.10	0.15	41.48		
3rd Main Road (W0088)	Cum	2	188.10	1.10	0.15	62.07		
4th Main Road	Cum	1	253.00	1.10	0.15	41.75		
5th Cross Road (W0147)	Cum	2	82.70	1.10	0.15	27.29		
3rd Main 3rd Cross Road (W0157)	Cum	1	143.60	1.10	0.15	23.69		
2nd Main Road (W0090)	Cum	2	92.80	1.10	0.15	30.62		
3rd Main 2nd Cross Road (W0171)	Cum	2	100.20	1.10	0.15	33.07		
1st Main Road	Cum	1	30.70	1.10	0.15	5.07		
Site No328 to 327	Cum	1	35.70	1.10	0.15	5.89		
1st A cross road	Cum	2	83.80	1.10	0.15	27.65		
Atturu Lake Road	Cum	1	413.90	1.10	0.15	68.29		
Kempanahalli Road	Cum	2	426.00	1.10	0.15	140.58		
CQAL Layout								
1st Cross Road	Cum	1	55.40	1.10	0.15	9.14		
2nd Main Road	Cum	2	469.80	1.10	0.15	155.03		
5th Cross Road (Temple road)	Cum	2	34.70	1.10	0.15	11.45		
4th Cross Road	Cum	1	56.10	1.10	0.15	9.26		
3rd Cross Road	Cum	2	51.10	1.10	0.15	16.86		
2nd Cross Road	Cum	2	42.80	1.10	0.15	14.12		
3rd Main Road	Cum	2	206.20	1.10	0.15	68.05		
Drain Side Wall								
Muniraju Layout								
Main Road (WO294)	Cum	4	139.90	0.15	0.60	50.36		
3rd Cross Road (WO521)	Cum	4	72.60	0.15	0.60	26.14		
2nd Cross Road (W0523)	Cum	4	64.70	0.15	0.60	23.29		
1st Cross Road (WO525)	Cum	4	51.50	0.15	0.60	18.54		
4th Cross Road (W0517)	Cum	4	79.60	0.15	0.60	28.66		
1st Cross Road (WO525)	Cum	4	58.90	0.15	0.60	21.20		
2nd Cross Road(W0523)	Cum	4	65.50	0.15	0.60	23.58		
3rd Cross Road (WO521)	Cum	4	55.60	0.15	0.60	20.02		
4th Cross Road (W0517)	Cum	4	47.00	0.15	0.60	16.92		
Cross Road	Cum	4	31.50	0.15	0.60	11.34		
Deo Marvel Layout								
6th Cross Road (W0137)	Cum	4	57.50	0.15	0.60	20.70		
7th Cross Road (W0135)	Cum	4	68.70	0.15	0.60	24.73		

Description of work	Unit	Mesurement				Qty	Rate	Amount
		No.	L	B	D			
8th Cross Road (W0133)	Cum	4	82.50	0.15	0.60	29.70		
9th Cross Road (W0129)	Cum	4	88.00	0.15	0.60	31.68		
10th Cross Road (Wo125)	Cum	4	62.50	0.15	0.60	22.50		
11th Cross Road (W0119)	Cum	4	66.70	0.15	0.60	24.01		
12th Cross Road (W0113)	Cum	4	45.40	0.15	0.60	16.34		
5th main road	Cum	2	127.40	0.15	0.60	22.93		
4th Cross Road (WO143)	Cum	2	251.40	0.15	0.60	45.25		
3rd Main Road (W0088)	Cum	4	188.10	0.15	0.65	73.36		
4th Main Road	Cum	2	253.00	0.15	0.60	45.54		
5th Cross Road (W0147)	Cum	4	82.70	0.15	0.60	29.77		
3rd Main 3rd Cross Road (W0157)	Cum	2	143.60	0.15	0.60	25.85		
2nd Main Road (W0090)	Cum	4	92.80	0.15	0.60	33.41		
3rd Main 2nd Cross Road (W0171)	Cum	4	100.20	0.15	0.60	36.07		
1st Main Road	Cum	2	30.70	0.15	0.60	5.53		
Site No328 to 327	Cum	2	35.70	0.15	0.60	6.43		
1st A cross road	Cum	4	83.80	0.15	0.60	30.17		
Atturu Lake Road	Cum	2	413.90	0.15	0.60	74.50		
Kempanahalli Road	Cum	4	426.00	0.15	0.70	178.38		
CQAL Layout								
1st Cross Road	Cum	2	55.40	0.15	0.75	12.47		
2nd Main Road	Cum	4	469.80	0.15	0.75	211.41		
5th Cross Road (Temple road)	Cum	4	34.70	0.15	0.60	12.49		
4th Cross Road	Cum	2	56.10	0.15	0.60	10.10		
3rd Cross Road	Cum	4	51.10	0.15	0.60	18.40		
2nd Cross Road	Cum	4	42.80	0.15	0.60	15.41		
3rd Main Road	Cum	4	206.20	0.15	0.60	74.23		
				Sub Total			**2559.37**	
Culvert Bottom Raft								
Muniraju Layout								
Main Road	Cum	9	5.80	1.40	0.20	14.62		
Kempanahalli road	Cum	2	4.90	1.40	0.20	2.74		
Deo Marvel Layout	Cum							
3rd Main Road (W0088)	Cum	5	9.70	1.40	0.20	13.58		
	Cum	1	13.00	1.40	0.20	3.64		
4th Main Road	Cum	8	8.05	1.40	0.20	18.03		
5th Cross Road (W0147)	Cum	1	13.20	1.40	0.20	3.70		
3rd Main 3rd Cross Road (W0157)	Cum	1	10.00	1.40	0.20	2.80		
	Cum	4	6.00	1.40	0.20	6.72		
Culvert Side Walls								
Muniraju Layout								
Main Road	Cum	18	5.80	0.25	0.50	13.05		
Kempanahalli road	Cum	4	4.90	0.25	0.60	2.94		
Deo Marvel Layout								
3rd Main Road (W0088)	Cum	10	9.70	0.25	0.50	12.13		
	Cum	2	13.00	0.25	0.60	3.90		
4th Main Road	Cum	16	8.05	0.25	0.50	16.10		

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	5th Cross Road (W0147)	Cum	2	13.20	0.25	0.50	3.30		
	3rd Main 3rd Cross Road (W0157)	Cum	2	10.00	0.25	0.50	2.50		
		Cum	8	6.00	0.25	0.6	7.11		
					Sub Total		**126.85**		
	Basic rate	7002.82							
	Area weightage 6%	420.17							
	Sub Total	**7422.99**							
	Total						**2686.22**	**7422.99**	**19939803.00**
4	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum	From Item No.03				2559.37		
		kg	Steel assumed 60Kg/Cum of Concrete				153562.37		
		tonne					**153.56**		
	For Culvert	Cum	From Item No.03				126.85		
		kg	Steel assumed 80Kg/Cum of Concrete				10148.00		
		tonne					**10.15**		
	Basic rate	75610							
	Area weightage 6%	4536.6							
	Sub Total	**80146.60**							
	Total						**163.71**	**80146.60**	**13120830.00**
5	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Drain Cover Slab	Sqm							
	Muniraju Layout								
	Main Road (WO294)	Sqm	2	139.90	0.90		251.82		
	3rd Cross Road (WO521)	Sqm	2	72.60	0.90		130.68		
	2nd Cross Road (W0523)	Sqm	2	64.70	0.90		116.46		
	1st Cross Road (WO525)	Sqm	2	51.50	0.90		92.70		
	4th Cross Road (W0517)	Sqm	2	79.60	0.90		143.28		
	1st Cross Road (WO525)	Sqm	2	58.90	0.90		106.02		
	2nd Cross Road(W0523)	Sqm	2	65.50	0.90		117.90		
	3rd Cross Road (WO521)	Sqm	2	55.60	0.90		100.08		
	4th Cross Road (W0517)	Sqm	2	47.00	0.90		84.60		
	Cross Road	Sqm	2	31.50	0.90		56.70		
	Deo Marvel Layout								
	6th Cross Road (W0137)	Sqm	2	57.50	0.90		103.50		
	7th Cross Road (W0135)	Sqm	2	68.70	0.90		123.66		
	8th Cross Road (W0133)	Sqm	2	82.50	0.90		148.50		
	9th Cross Road (W0129)	Sqm	2	88.00	0.90		158.40		
	10th Cross Road (Wo125)	Sqm	2	62.50	0.90		112.50		
	11th Cross Road (W0119)	Sqm	2	66.70	0.90		120.06		
	12th Cross Road (W0113)	Sqm	2	45.40	0.90		81.72		
	5th main road	Sqm	1	127.40	0.90		114.66		
	4th Cross Road (WO143)	Sqm	1	251.40	0.90		226.26		
	3rd Main Road (W0088)	Sqm	2	188.10	0.90		338.58		

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	4th Main Road	Sqm	1	253.00	0.90		227.70		
	5th Cross Road (W0147)	Sqm	2	82.70	0.90		148.86		
	3rd Main 3rd Cross Road (W0157)	Sqm	1	143.60	0.90		129.24		
	2nd Main Road (W0090)	Sqm	2	92.80	0.90		167.04		
	3rd Main 2nd Cross Road (W0171)	Sqm	2	100.20	0.90		180.36		
	1st Main Road	Sqm	1	30.70	0.90		27.63		
	Site No328 to 327	Sqm	1	35.70	0.90		32.13		
	1st A cross road	Sqm	2	83.80	0.90		150.84		
	Atturu Lake Road	Sqm	1	413.90	0.90		372.51		
	Kempanahalli Road	Sqm	2	426.00	0.90		766.80		
	CQAL Layout								
	1st Cross Road	Sqm	1	55.40	0.90		49.86		
	2nd Main Road	Sqm	2	469.80	0.90		845.64		
	5th Cross Road (Temple road)	Sqm	2	34.70	0.90		62.46		
	4th Cross Road	Sqm	1	56.10	0.90		50.49		
	3rd Cross Road	Sqm	2	51.10	0.90		91.98		
	2nd Cross Road	Sqm	2	42.80	0.90		77.04		
	3rd Main Road	Sqm	2	206.20	0.90		371.16		
	Missing Slabs	Sqm	1	910.4	0.90		819.34		
	Data rate	**1922.00**							
	Total						**7299.16**	**1922.00**	**14028996.00**
6	Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	Culvert Cover Slab	Sqm							
	Muniraju Layout								
	Main Road	Sqm	9	5.80	1.20		62.64		
	Kempanahalli road	Sqm	2	4.90	1.20		11.76		
	Deo Marvel Layout								
	3rd Main Road (W0088)	Sqm	5	9.70	1.20		58.20		
		Sqm	1	13.00	1.20		15.60		
	4th Main Road	Sqm	8	8.05	1.20		77.28		
	5th Cross Road (W0147)	Sqm	1	13.20	1.20		15.84		
	3rd Main 3rd Cross Road (W0157)	Sqm	1	10.00	1.20		12.00		
		Sqm	4	6.00	1.20		28.80		
	Missing or Damaged Slab	Sqm	110	1.50	0.60		98.43		
	Data rate	**4486.00**							
	Total						**380.55**	**4486.00**	**1707148.00**
7	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	PCC For Kerb	Cum							
	Muniraju Layout								
	Main Road (WO294)	Cum	2	139.90	0.20	0.10	5.60		
	3rd Cross Road (WO521)	Cum	2	72.60	0.20	0.10	2.90		
	2nd Cross Road (W0523)	Cum	2	64.70	0.20	0.10	2.59		
	1st Cross Road (WO525)	Cum	2	51.50	0.20	0.10	2.06		
	4th Cross Road (W0517)	Cum	2	79.60	0.20	0.10	3.18		

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	1st Cross Road (WO525)	Cum	2	58.90	0.20	0.10	2.36		
	2nd Cross Road(W0523)	Cum	2	65.50	0.20	0.10	2.62		
	3rd Cross Road (WO521)	Cum	2	55.60	0.20	0.10	2.22		
	4th Cross Road (W0517)	Cum	2	47.00	0.20	0.10	1.88		
	Cross Road	Cum	2	31.50	0.20	0.10	1.26		
	Deo Marvel Layout								
	6th Cross Road (W0137)	Cum	2	54.70	0.20	0.10	2.19		
	7th Cross Road (W0135)	Cum	2	69.20	0.20	0.10	2.77		
	8th Cross Road (W0133)	Cum	2	76.50	0.20	0.10	3.06		
	9th Cross Road (W0129)	Cum	2	54.80	0.20	0.10	2.19		
	10th Cross Road (Wo125)	Cum	2	54.50	0.20	0.10	2.18		
	11th Cross Road (W0119)	Cum	2	59.50	0.20	0.10	2.38		
	12th.Cross Road (W0113)	Cum	1	46.70	0.20	0.10	0.93		
	5th main road	Cum	1	124.30	0.20	0.10	2.49		
	4th Cross Road (WO143)	Cum	1	200.60	0.20	0.10	4.01		
	3rd Main Road (W0088)	Cum	2	167.05	0.20	0.10	6.68		
	4th Main Road	Cum	1	205.80	0.20	0.10	4.12		
	5th Cross Road (W0147)	Cum	2	81.80	0.20	0.10	3.27		
	3rd Main 3rd Cross Road (W0157)	Cum	1	128.40	0.20	0.10	2.57		
	2nd Main Road (W0090)	Cum	2	82.60	0.20	0.10	3.30		
	3rd Main 2nd Cross Road (W0171)	Cum	2	83.40	0.20	0.10	3.34		
	1st Main Road	Cum	1	29.30	0.20	0.10	0.59		
	Site No328 to 327	Cum	1	36.60	0.20	0.10	0.73		
	1st A cross road	Cum	2	79.30	0.20	0.10	3.17		
	Atturu Lake Road	Cum	1	399.60	0.20	0.10	7.99		
	Kempanahalli Road	Cum	2	413.90	0.20	0.10	16.56		
	CQAL Layout								
	1st Cross Road	Cum	1	55.40	0.20	0.10	1.11		
	2nd Main Road	Cum	2	469.80	0.20	0.10	18.79		
	5th Cross Road (Temple road)	Cum	2	34.70	0.20	0.10	1.39		
	4th Cross Road	Cum	1	56.10	0.20	0.10	1.12		
	3rd Cross Road	Cum	2	51.10	0.20	0.10	2.04		
	2nd Cross Road	Cum	2	42.80	0.20	0.10	1.71		
	3rd Main Road	Cum	2	206.20	0.20	0.10	8.25		
	Cross Road	Cum	2	220.90	0.20	0.10	8.84		
	Cross Road	Cum	2	276.05	0.20	0.10	11.04		
	Patel Tayappa Layout	Cum	2	97.50	0.20	0.10	3.90		
	Century apartment road	Cum	2	216.80	0.20	0.10	8.67		
	Basic rate	5688.26							
	Area weightage 6%	341.30							
	Sub Total	**6029.56**							
	Total						**168.05**	**6029.56**	**1013279.00**
8	Providing and fixing **pre cast solid cement concrete kerb stones** made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	For Kerb								

Description of work	Unit	Mesurement				Qty	Rate	Amount
		No.	L	B	D			
Muniraju Layout								
Main Road (WO294)	m	2	139.90			279.80		
3rd Cross Road (WO521)	m	2	72.60			145.20		
2nd Cross Road (W0523)	m	2	64.70			129.40		
1st Cross Road (WO525)	m	2	51.50			103.00		
4th Cross Road (W0517)	m	2	79.60			159.20		
1st Cross Road (WO525)	m	2	58.90			117.80		
2nd Cross Road(W0523)	m	2	65.50			131.00		
3rd Cross Road (WO521)	m	2	55.60			111.20		
4th Cross Road (W0517)	m	2	47.00			94.00		
Cross Road	m	2	31.50			63.00		
Deo Marvel Layout								
6th Cross Road (W0137)	m	2	54.70			109.40		
7th Cross Road (W0135)	m	2	69.20			138.40		
8th Cross Road (W0133)	m	2	76.50			153.00		
9th Cross Road (W0129)	m	2	54.80			109.60		
10th Cross Road (Wo125)	m	2	54.50			109.00		
11th Cross Road (W0119)	m	2	59.50			119.00		
12th Cross Road (W0113)	m	1	46.70			46.70		
5th main road	m	1	124.30			124.30		
4th Cross Road (WO143)	m	1	200.60			200.60		
3rd Main Road (W0088)	m	2	167.05			334.10		
4th Main Road	m	1	205.80			205.80		
5th Cross Road (W0147)	m	2	81.80			163.60		
3rd Main 3rd Cross Road (W0157)	m	1	128.40			128.40		
2nd Main Road (W0090)	m	2	82.60			165.20		
3rd Main 2nd Cross Road (W0171)	m	2	83.40			166.80		
1st Main Road	m	1	29.30			29.30		
Site No328 to 327	m	1	36.60			36.60		
1st A cross road	m	2	79.30			158.60		
Atturu Lake Road	m	1	399.60			399.60		
Kempanahalli Road	m	2	413.90			827.80		
CQAL Layout								
1st Cross Road	m	1	55.40			55.40		
2nd Main Road	m	2	469.80			939.60		
5th Cross Road (Temple road)	m	2	34.70			69.40		
4th Cross Road	m	1	56.10			56.10		
3rd Cross Road	m	2	51.10			102.20		
2nd Cross Road	m	2	42.80			85.60		
3rd Main Road	m	2	206.20			412.40		
Cross Road	m	2	220.90			441.80		
Cross Road	m	2	276.05			552.10		
Patel Tayappa Layout	m	2	97.50			195.00		
Century apartment road	m	2	216.80			433.60		
Total length						8402.60		
No of Kerb Stones	Total Length/0.45					18672.44		
Sub Total	**Nos**					**18672.00**		
Basic rate	408.00							

Description of work	Unit	Mesurement				Qty	Rate	Amount
		No.	L	B	D			
Area weightage 6%	24.48							
Sub Total	**432.48**							
Total						**18672.00**	**432.48**	**8075266.00**
KSRRB 800-1. **Painting two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. Item no.24.1 of KPWD S.R Bangalore Circle 2018-2019)								
For Kerb Painting	**Sqm**							
Muniraju Layout								
Main Road (WO294)	Sqm	2	139.90		0.35	97.93		
3rd Cross Road (WO521)	Sqm	2	72.60		0.35	50.82		
2nd Cross Road (W0523)	Sqm	2	64.70		0.35	45.29		
1st Cross Road (WO525)	Sqm	2	51.50		0.35	36.05		
4th Cross Road (W0517)	Sqm	2	79.60		0.35	55.72		
1st Cross Road (WO525)	Sqm	2	58.90		0.35	41.23		
2nd Cross Road(W0523)	Sqm	2	65.50		0.35	45.85		
3rd Cross Road (WO521)	Sqm	2	55.60		0.35	38.92		
4th Cross Road (W0517)	Sqm	2	47.00		0.35	32.90		
Cross Road	Sqm	2	31.50		0.35	22.05		
Deo Marvel Layout								
6th Cross Road (W0137)	Sqm	2	54.70		0.35	38.29		
7th Cross Road (W0135)	Sqm	2	69.20		0.35	48.44		
8th Cross Road (W0133)	Sqm	2	76.50		0.35	53.55		
9th Cross Road (W0129)	Sqm	2	54.80		0.35	38.36		
10th Cross Road (Wo125)	Sqm	2	54.50		0.35	38.15		
11th Cross Road (W0119)	Sqm	2	59.50		0.35	41.65		
12th Cross Road (W0113)	Sqm	1	46.70		0.35	16.35		
5th main road	Sqm	1	124.30		0.35	43.51		
4th Cross Road (WO143)	Sqm	1	200.60		0.35	70.21		
3rd Main Road (W0088)	Sqm	2	167.05		0.35	116.94		
4th Main Road	Sqm	1	205.80		0.35	72.03		
5th Cross Road (W0147)	Sqm	2	81.80		0.35	57.26		
3rd Main 3rd Cross Road (W0157)	Sqm	1	128.40		0.35	44.94		
2nd Main Road (W0090)	Sqm	2	82.60		0.35	57.82		
3rd Main 2nd Cross Road (W0171)	Sqm	2	83.40		0.35	58.38		
1st Main Road	Sqm	1	29.30		0.35	10.26		
Site No328 to 327	Sqm	1	36.60		0.35	12.81		
1st A cross road	Sqm	2	79.30		0.35	55.51		
Atturu Lake Road	Sqm	1	399.60		0.35	139.86		
Kempanahalli Road	Sqm	2	413.90		0.35	289.73		
CQAL Layout								
1st Cross Road	Sqm	1	55.40		0.35	19.39		
2nd Main Road	Sqm	2	469.80		0.35	328.86		
5th Cross Road (Temple road)	Sqm	2	34.70		0.35	24.29		
4th Cross Road	Sqm	1	56.10		0.35	19.64		
3rd Cross Road	Sqm	2	51.10		0.35	35.77		
2nd Cross Road	Sqm	2	42.80		0.35	29.96		
3rd Main Road	Sqm	2	206.20		0.35	144.34		

Description of work	Unit	Mesurement				Qty	Rate	Amount
		No.	L	B	D			
Cross Road	Sqm	2	220.90		0.35	154.63		
Cross Road	Sqm	2	276.05		0.35	193.24		
Patel Tayappa Layout	Sqm	2	97.50		0.35	68.25		
Century apartment road	Sqm	2	216.80		0.35	151.76		
Basic rate	80.00							
Area weightage 6%	4.80							
Sub Total	**84.80**							
Total						**2940.91**	**84.80**	**249390.00**

KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= (I No-19.14,P No-143)

For Road	**Cum**							
Muniraju Layout								
Main Road (WO294)	Cum	1	163.00	6.70	0.35	382.24		
3rd Cross Road (WO521)	Cum	1	73.60	5.15	0.35	132.66		
2nd Cross Road (W0523)	Cum	1	65.30	5.05	0.35	115.42		
1st Cross Road (WO525)	Cum	1	56.30	4.75	0.35	93.60		
4th Cross Road (W0517)	Cum	1	80.80	5.30	0.35	149.88		
1st Cross Road (WO525)	Cum	1	73.50	4.95	0.35	127.34		
2nd Cross Road(W0523)	Cum	1	66.20	4.90	0.35	113.53		
3rd Cross Road (WO521)	Cum	1	56.40	5.10	0.35	100.67		
4th Cross Road (W0517)	Cum	1	49.40	5.20	0.35	89.91		
Cross Road	Cum	1	33.30	4.35	0.35	50.70		
Sri Krishna Enclave	Cum	1	87.20	3.85	0.35	117.50		
Patel Tayappa Layout	Cum	1	134.00	5.50	0.35	257.95		
Sai Nagar Phase-1								
1st Cross Road (W0562)	Cum	1	144.60	6.00	0.35	307.13		
2nd Cross Road (W0556)	Cum	1	136.30	6.30	0.35	300.54		
3rd Cross Road (WO554)	Cum	1	129.30	5.90	0.35	267.00		
4th Cross Road (WO 440)	Cum	1	121.90	6.35	0.35	270.92		
Sai Baba Temple Road (WO793)	Cum	1	241.70	6.15	0.35	520.26		
# 61 Maathru Sri Nilaya (WO434)	Cum	1	44.10	4.50	0.35	69.46		
Sai Mandir Left Side Road	Cum	1	35.10	4.95	0.35	60.81		
Sai Mandira Right	Cum	1	39.30	5.00	0.35	68.78		
Sai Nagar Phase-III								
3rd Cross Road (W0785)	Cum	1	141.40	5.50	0.35	272.20		
4th Cross Road (W0779)	Cum	1	31.50	7.05	0.35	77.73		
Mahi Layout								
1st Main Road	Cum	1	135.00	6.80	0.35	321.30		
2nd Main Road	Cum	1	115.50	4.55	0.35	183.93		
Connecting Road -2	Cum	1	11.90	6.50	0.35	27.09		
Connecting Road -1	Cum	1	25.20	5.50	0.35	48.55		
3rd Main Road	Cum	1	54.90	6.40	0.35	123.05		
Cross Road -1	Cum	1	22.10	5.70	0.35	44.12		
Cross Road -2	Cum	1	26.40	5.55	0.35	51.28		

	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Main Road	Cum	1	278.90	5.20	0.35	507.99		
	Ananthpura								
	13th Cross Road	Cum	1	147.20	5.70	0.35	293.66		
	Cross Road	Cum	1	47.00	6.70	0.35	110.22		
	Century Saras Road (W0128)	Cum	1	88.00	8.50	0.35	261.84		
	Ambabhavani Layout								
	11th Cross Road	Cum	1	64.10	7.10	0.35	159.29		
	12th Cross Road	Cum	1	65.70	7.00	0.35	160.97		
	13th Cross Road	Cum	1	64.90	6.95	0.35	157.87		
	13th Cross Road	Cum	1	10.90	6.95	0.35	26.67		
	11th Cross Road	Cum	1	17.90	7.10	0.35	44.48		
	Basic rate	41.00							
	Area weightage 6%	2.46							
	8Km lead= (2*1.28*8)	20.48							
	Sub Total	**63.94**							
	Total						**6468.52**	**63.94**	**413598.00**
1	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.(I No-19.64,P No-147)								
	Muniraju Layout								
	Main Road (WO294)	Sqm	1	163.00	6.70		1092.10		
	3rd Cross Road (WO521)	Sqm	1	73.60	5.15		379.04		
	2nd Cross Road (W0523)	Sqm	1	65.30	5.05		329.77		
	1st Cross Road (WO525)	Sqm	1	56.30	4.75		267.43		
	4th Cross Road (W0517)	Sqm	1	80.80	5.30		428.24		
	1st Cross Road (WO525)	Sqm	1	73.50	4.95		363.83		
	2nd Cross Road(W0523)	Sqm	1	66.20	4.90		324.38		
	3rd Cross Road (WO521)	Sqm	1	56.40	5.10		287.64		
	4th Cross Road (W0517)	Sqm	1	49.40	5.20		256.88		
	Cross Road	Sqm	1	33.30	4.35		144.86		
	Sri Krishna Enclave	Sqm	1	87.20	3.85		335.72		
	Patel Tayappa Layout	Sqm	1	134.00	5.50		737.00		
	Sai Nagar Phase-1								
	1st Cross Road (W0562)	Sqm	1	144.60	6.00		867.60		
	2nd Cross Road (W0556)	Sqm	1	136.30	6.30		858.69		
	3rd Cross Road (WO554)	Sqm	1	129.30	5.90		762.87		
	4th Cross Road (WO 440)	Sqm	1	121.90	6.35		774.07		
	Sai Baba Temple Road (WO793)	Sqm	1	241.70	6.15		1486.46		
	# 61 Maathru Sri Nilaya (WO434)	Sqm	1	44.10	4.50		198.45		
	Sai Mandir Left Side Road	Sqm	1	35.10	4.95		173.75		
	Sai Mandira Right	Sqm	1	39.30	5.00		196.50		
	Sai Nagar Phase-III								
	3rd Cross Road (W0785)	Sqm	1	141.40	5.50		777.70		
	4th Cross Road (W0779)	Sqm	1	100.50	7.05		708.53		
	Mahi Layout								
	1st Main Road	Sqm	1	135.00	6.80		918.00		
	2nd Main Road	Sqm	1	115.50	4.55		525.53		
	Connecting Road -2	Sqm	1	11.90	6.50		77.40		
	Connecting Road -1	Sqm	1	25.20	5.50		138.70		
	3rd Main Road	Sqm	1	54.90	6.40		351.58		
	Cross Road -1	Sqm	1	22.10	5.70		126.06		

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Cross Road -2	Sqm	1	26.40	5.55		146.52		
	Main Road	Sqm	1	278.90	5.20		1451.40		
	Ananthpura								
	13th Cross Road	Sqm	1	147.20	5.70		839.04		
	Cross Road	Sqm	1	47.00	6.70		314.90		
	Century Saras Road (W0128)	Sqm	1	88.00	8.50		748.10		
	Ambabhavani Layout								
	11th Cross Road	Sqm	1	64.10	7.10		455.11		
	12th Cross Road	Sqm	1	65.70	7.00		459.90		
	13th Cross Road	Sqm	1	64.90	6.95		451.06		
	13th Cross Road	Sqm	1	10.90	6.95		75.76		
	11th Cross Road	Sqm	1	17.90	7.10		127.09		
	Basic rate	6.00							
	Area weightage 6%	0.36							
	Sub Total	**6.36**							
	Total						**18957.60**	**6.36**	**120571.00**
12	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305 (P.No.147,I.No.19.60)								
	Sai Mandira Right								
	4th Cross Road (W0779)	Cum	1	69.00	7.05	0.3	142.83		
	Basic rate	325.00							
	Area weightage 6%	19.50							
	Sub Total	**344.50**							
	Total						**142.83**	**344.50**	**49205.00**
13	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-								
	Muniraju Layout								
	Main Road (WO294)	Cum	1	163.00	6.70	0.15	163.82		
	3rd Cross Road (WO521)	Cum	1	73.60	5.15	0.15	56.86		
	2nd Cross Road (W0523)	Cum	1	65.30	5.05	0.15	49.46		
	1st Cross Road (WO525)	Cum	1	56.30	4.75	0.15	40.11		
	4th Cross Road (W0517)	Cum	1	80.80	5.30	0.15	64.24		
	1st Cross Road (WO525)	Cum	1	73.50	4.95	0.15	54.57		
	2nd Cross Road(W0523)	Cum	1	66.20	4.90	0.15	48.66		
	3rd Cross Road (WO521)	Cum	1	56.40	5.10	0.15	43.15		
	4th Cross Road (W0517)	Cum	1	49.40	5.20	0.15	38.53		
	Cross Road	Cum	1	33.30	4.35	0.15	21.73		
	Sri Krishna Enclave	Cum	1	87.20	3.85	0.15	50.36		
	Patel Tayappa Layout	Cum	1	134.00	5.50	0.15	110.55		
	Sai Nagar Phase-1								
	1st Cross Road (W0562)	Cum	1	144.60	6.00	0.15	130.14		
	2nd Cross Road (W0556)	Cum	1	136.30	6.30	0.15	128.80		
	3rd Cross Road (WO554)	Cum	1	129.30	5.90	0.15	114.43		
	4th Cross Road (WO 440)	Cum	1	121.90	6.35	0.15	116.11		
	Sai Baba Temple Road (WO793)	Cum	1	241.70	6.15	0.15	222.97		

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	# 61 Maathru Sri Nilaya (WO434)	Cum	1	44.10	4.50	0.15	29.77		
	Sai Mandir Left Side Road	Cum	1	35.10	4.95	0.15	26.06		
	Sai Mandira Right	Cum	1	39.30	5.00	0.15	29.48		
	Sai Nagar Phase-III								
	3rd Cross Road (W0785)	Cum	1	141.40	5.50	0.15	116.66		
	4th Cross Road (W0779)	Cum	1	100.50	7.05	0.15	106.28		
	Mahi Layout								
	1st Main Road	Cum	1	135.00	6.80	0.15	137.70		
	2nd Main Road	Cum	1	115.50	4.55	0.15	78.83		
	Connecting Road -2	Cum	1	11.90	6.50	0.15	11.61		
	Connecting Road -1	Cum	1	25.20	5.50	0.15	20.81		
	3rd Main Road	Cum	1	54.90	6.40	0.15	52.74		
	Cross Road -1	Cum	1	22.10	5.70	0.15	18.91		
	Cross Road -2	Cum	1	26.40	5.55	0.15	21.98		
	Main Road	Cum	1	278.90	5.20	0.15	217.71		
	Ananthpura								
	13th Cross Road	Cum	1	147.20	5.70	0.15	125.86		
	Cross Road	Cum	1	47.00	6.70	0.15	47.24		
	Century Saras Road (W0128)	Cum	1	88.00	8.50	0.15	112.22		
	Ambabhavani Layout								
	11th Cross Road	Cum	1	64.10	7.10	0.15	68.27		
	12th Cross Road	Cum	1	65.70	7.00	0.15	68.99		
	13th Cross Road	Cum	1	64.90	6.95	0.15	67.66		
	13th Cross Road	Cum	1	10.90	6.95	0.15	11.36		
	11th Cross Road	Cum	1	17.90	7.10	0.15	19.06		
	Basic rate	1882.00							
	Area weightage 6%	112.92							
	Sub Total	**1994.92**							
	Total						**2843.64**	**1994.92**	**5672854.00**
14	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)								
	Muniraju Layout								
	Main Road (WO294)	Cum	1	163.00	6.70	0.20	218.42		
	3rd Cross Road (WO521)	Cum	1	73.60	5.15	0.20	75.81		
	2nd Cross Road (W0523)	Cum	1	65.30	5.05	0.20	65.95		
	1st Cross Road (WO525)	Cum	1	56.30	4.75	0.20	53.49		
	4th Cross Road (W0517)	Cum	1	80.80	5.30	0.20	85.65		
	1st Cross Road (WO525)	Cum	1	73.50	4.95	0.20	72.77		
	2nd Cross Road(W0523)	Cum	1	66.20	4.90	0.20	64.88		
	3rd Cross Road (WO521)	Cum	1	56.40	5.10	0.20	57.53		
	4th Cross Road (W0517)	Cum	1	49.40	5.20	0.20	51.38		
	Cross Road	Cum	1	33.30	4.35	0.20	28.97		
	Sri Krishna Enclave	Cum	1	87.20	3.85	0.20	67.14		
	Patel Tayappa Layout	Cum	1	134.00	5.50	0.20	147.40		
	Sai Nagar Phase-1								
	1st Cross Road (W0562)	Cum	1	144.60	6.00	0.20	173.52		
	2nd Cross Road (W0556)	Cum	1	136.30	6.30	0.20	171.74		
	3rd Cross Road (WO554)	Cum	1	129.30	5.90	0.20	152.57		
	4th Cross Road (WO 440)	Cum	1	121.90	6.35	0.20	154.81		

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Sai Baba Temple Road (WO793)	Cum	1	241.70	6.15	0.20	297.29		
	# 61 Maathru Sri Nilaya (WO434)	Cum	1	44.10	4.50	0.20	39.69		
	Sai Mandir Left Side Road	Cum	1	35.10	4.95	0.20	34.75		
	Sai Mandira Right	Cum	1	39.30	5.00	0.20	39.30		
	Sai Nagar Phase-III								
	3rd Cross Road (W0785)	Cum	1	141.40	5.50	0.20	155.54		
	4th Cross Road (W0779)	Cum	1	100.50	7.05	0.20	141.71		
	Mahi Layout								
	1st Main Road	Cum	1	135.00	6.80	0.20	183.60		
	2nd Main Road	Cum	1	115.50	4.55	0.20	105.11		
	Connecting Road -2	Cum	1	11.90	6.50	0.20	15.48		
	Connecting Road -1	Cum	1	25.20	5.50	0.20	27.74		
	3rd Main Road	Cum	1	54.90	6.40	0.20	70.32		
	Cross Road -1	Cum	1	22.10	5.70	0.20	25.21		
	Cross Road -2	Cum	1	26.40	5.55	0.20	29.30		
	Main Road	Cum	1	278.90	5.20	0.20	290.28		
	Ananthpura								
	13th Cross Road	Cum	1	147.20	5.70	0.20	167.81		
	Cross Road	Cum	1	47.00	6.70	0.20	62.98		
	Century Saras Road (W0128)	Cum	1	88.00	8.50	0.20	149.62		
	Ambabhavani Layout								
	11th Cross Road	Cum	1	64.10	7.10	0.20	91.02		
	12th Cross Road	Cum	1	65.70	7.00	0.20	91.98		
	13th Cross Road	Cum	1	64.90	6.95	0.20	90.21		
	13th Cross Road	Cum	1	10.90	6.95	0.20	15.15		
	11th Cross Road	Cum	1	17.90	7.10	0.20	25.42		
	Basic rate	1888.00							
	Area weightage 6%	113.28							
	Sub Total	**2001.28**							
	Total						**3791.52**	**2001.28**	**7587893.00**
15	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6)								
	Muniraju Layout								
	Main Road (WO294)	Sqm	1	163.00	6.70		1092.10		
	3rd Cross Road (WO521)	Sqm	1	73.60	5.15		379.04		
	2nd Cross Road (W0523)	Sqm	1	65.30	5.05		329.77		
	1st Cross Road (WO525)	Sqm	1	56.30	4.75		267.43		
	4th Cross Road (W0517)	Sqm	1	80.80	5.30		428.24		
	1st Cross Road (WO525)	Sqm	1	73.50	4.95		363.83		
	2nd Cross Road(W0523)	Sqm	1	66.20	4.90		324.38		
	3rd Cross Road (WO521)	Sqm	1	56.40	5.10		287.64		
	4th Cross Road (W0517)	Sqm	1	49.40	5.20		256.88		
	Cross Road	Sqm	1	33.30	4.35		144.86		
	Sri Krishna Enclave	Sqm	1	87.20	3.85		335.72		
	Patel Tayappa Layout	Sqm	1	134.00	5.50		737.00		
	Sai Nagar Phase-1								
	1st Cross Road (W0562)	Sqm	1	144.60	6.00		867.60		
	2nd Cross Road (W0556)	Sqm	1	136.30	6.30		858.69		
	3rd Cross Road (WO554)	Sqm	1	129.30	5.90		762.87		
	4th Cross Road (WO 440)	Sqm	1	121.90	6.35		774.07		
	Sai Baba Temple Road	Sqm	1	241.70	6.15		1486.46		
	# 61 Maathru Sri Nilaya	Sqm	1	44.10	4.50		198.45		
	Sai Mandir Left Side Road	Sqm	1	35.10	4.95		173.75		

o	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	Sai Mandira Right	Sqm	1	39.30	5.00		196.50		
	Sai Nagar Phase-III								
	3rd Cross Road (W0785)	Sqm	1	141.40	5.50		777.70		
	4th Cross Road (W0779)	Sqm	1	100.50	7.05		708.53		
	Mahi Layout								
	1st Main Road	Sqm	1	135.00	6.80		918.00		
	2nd Main Road	Sqm	1	115.50	4.55		525.53		
	Connecting Road -2	Sqm	1	11.90	6.50		77.40		
	Connecting Road -1	Sqm	1	25.20	5.50		138.70		
	3rd Main Road	Sqm	1	54.90	6.40		351.58		
	Cross Road -1	Sqm	1	22.10	5.70		126.06		
	Cross Road -2	Sqm	1	26.40	5.55		146.52		
	Main Road	Sqm	1	278.90	5.20		1451.40		
	Ananthpura								
	13th Cross Road	Sqm	1	147.20	5.70		839.04		
	Cross Road	Sqm	1	47.00	6.70		314.90		
	Century Saras Road (W0128)	Sqm	1	88.00	8.50		748.10		
	Ambabhavani Layout								
	11th Cross Road	Sqm	1	64.10	7.10		455.11		
	12th Cross Road	Sqm	1	65.70	7.00		459.90		
	13th Cross Road	Sqm	1	64.90	6.95		451.06		
	13th Cross Road	Sqm	1	10.90	6.95		75.76		
	11th Cross Road	Sqm	1	17.90	7.10		127.09		
	Basic rate	32.00							
	Area weightage 6%	1.92							
	Sub Total	**33.92**					**18957.60**	**33.92**	**643042.00**
	Total								
16	KSRRB M500-17. Providing and laying **dense graded bituminous macadam** using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No-160,I No-21.17.6)								
	Muniraju Layout								
	Main Road (WO294)	Cum	1	163.00	6.70	0.05	54.61		
	3rd Cross Road (WO521)	Cum	1	73.60	5.15	0.05	18.95		
	2nd Cross Road (W0523)	Cum	1	65.30	5.05	0.05	16.49		
	1st Cross Road (WO525)	Cum	1	56.30	4.75	0.05	13.37		
	4th Cross Road (W0517)	Cum	1	80.80	5.30	0.05	21.41		
	1st Cross Road (WO525)	Cum	1	73.50	4.95	0.05	18.19		
	2nd Cross Road(W0523)	Cum	1	66.20	4.90	0.05	16.22		
	3rd Cross Road (WO521)	Cum	1	56.40	5.10	0.05	14.38		
	4th Cross Road (W0517)	Cum	1	49.40	5.20	0.05	12.84		
	Cross Road	Cum	1	33.30	4.35	0.05	7.24		
	Sri Krishna Enclave	Cum	1	87.20	3.85	0.05	16.79		
	Patel Tayappa Layout	Cum	1	134.00	5.50	0.05	36.85		
	Sai Nagar Phase-1								
	1st Cross Road (W0562)	Cum	1	144.60	6.00	0.05	43.38		
	2nd Cross Road (W0556)	Cum	1	136.30	6.30	0.05	42.93		
	3rd Cross Road (WO554)	Cum	1	129.30	5.90	0.05	38.14		
	4th Cross Road (WO 440)	Cum	1	121.90	6.35	0.05	38.70		
	Sai Baba Temple Road (WO793)	Cum	1	241.70	6.15	0.05	74.32		

Description of work	Unit	Mesurement				Qty	Rate	Amount
		No.	L	B	D			
# 61 Maathru Sri Nilaya (WO434)	Cum	1	44.10	4.50	0.05	9.92		
Sai Mandir Left Side Road	Cum	1	35.10	4.95	0.05	8.69		
Sai Mandira Right	Cum	1	39.30	5.00	0.05	9.83		
Sai Nagar Phase-III								
3rd Cross Road (W0785)	Cum	1	141.40	5.50	0.05	38.89		
4th Cross Road (W0779)	Cum	1	100.50	7.05	0.05	35.43		
Mahi Layout								
1st Main Road	Cum	1	135.00	6.80	0.05	45.90		
2nd Main Road	Cum	1	115.50	4.55	0.05	26.28		
Connecting Road -2	Cum	1	11.90	6.50	0.05	3.87		
Connecting Road -1	Cum	1	25.20	5.50	0.05	6.94		
3rd Main Road	Cum	1	54.90	6.40	0.05	17.58		
Cross Road -1	Cum	1	22.10	5.70	0.05	6.30		
Cross Road -2	Cum	1	26.40	5.55	0.05	7.33		
Main Road	Cum	1	278.90	5.20	0.05	72.57		
Ananthpura								
13th Cross Road	Cum	1	147.20	5.70	0.05	41.95		
Cross Road	Cum	1	47.00	6.70	0.05	15.75		
Century Saras Road (W0128)	Cum	1	88.00	8.50	0.05	37.41		
Ambabhavani Layout								
11th Cross Road	Cum	1	64.10	7.10	0.05	22.76		
12th Cross Road	Cum	1	65.70	7.00	0.05	23.00		
13th Cross Road	Cum	1	64.90	6.95	0.05	22.55		
13th Cross Road	Cum	1	10.90	6.95	0.05	3.79		
11th Cross Road	Cum	1	17.90	7.10	0.05	6.35		
Basic rate	6880.00							
Area weightage 6%	412.80							
Sub Total	**7292.80**							
Total						**947.88**	**7292.80**	**6912699.00**

17 KSRRB 500-7. Providing and **applying tack coat** using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications (P.No-161,I No-21.7)

Muniraju Layout								
Main Road (WO294)	Sqm	1	163.00	6.70		1092.10		
3rd Cross Road (WO521)	Sqm	1	73.60	5.15		379.04		
2nd Cross Road (W0523)	Sqm	1	65.30	5.05		329.77		
1st Cross Road (WO525)	Sqm	1	56.30	4.75		267.43		
4th Cross Road (W0517)	Sqm	1	80.80	5.30		428.24		
1st Cross Road (WO525)	Sqm	1	73.50	4.95		363.83		
2nd Cross Road(W0523)	Sqm	1	66.20	4.90		324.38		
3rd Cross Road (WO521)	Sqm	1	56.40	5.10		287.64		
4th Cross Road (W0517)	Sqm	1	49.40	5.20		256.88		
Cross Road	Sqm	1	33.30	4.35		144.86		
Sri Krishna Enclave	Sqm	1	87.20	3.85		335.72		
Patel Tayappa Layout	Sqm	1	134.00	5.50		737.00		
Sai Nagar Phase-1								
1st Cross Road (W0562)	Sqm	1	144.60	6.00		867.60		
2nd Cross Road (W0556)	Sqm	1	136.30	6.30		858.69		
3rd Cross Road (WO554)	Sqm	1	129.30	5.90		762.87		
4th Cross Road (WO 440)	Sqm	1	121.90	6.35		774.07		
Sai Baba Temple Road	Sqm	1	241.70	6.15		1486.46		

	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	# 61 Maathru Sri Nilaya	Sqm	1	44.10	4.50		198.45		
	Sai Mandir Left Side Road	Sqm	1	35.10	4.95		173.75		
	Sai Mandira Right	Sqm	1	39.30	5.00		196.50		
	Sai Nagar Phase-III								
	3rd Cross Road (W0785)	Sqm	1	141.40	5.50		777.70		
	4th Cross Road (W0779)	Sqm	1	100.50	7.05		708.53		
	Mahi Layout								
	1st Main Road	Sqm	1	135.00	6.80		918.00		
	2nd Main Road	Sqm	1	115.50	4.55		525.53		
	Connecting Road -2	Sqm	1	11.90	6.50		77.40		
	Connecting Road -1	Sqm	1	25.20	5.50		138.70		
	3rd Main Road	Sqm	1	54.90	6.40		351.58		
	Cross Road -1	Sqm	1	22.10	5.70		126.06		
	Cross Road -2	Sqm	1	26.40	5.55		146.52		
	Main Road	Sqm	1	278.90	5.20		1451.40		
	Ananthpura								
	13th Cross Road	Sqm	1	147.20	5.70		839.04		
	Cross Road	Sqm	1	47.00	6.70		314.90		
	Century Saras Road (W0128)	Sqm	1	88.00	8.50		748.10		
	Ambabhavani Layout								
	11th Cross Road	Sqm	1	64.10	7.10		455.11		
	12th Cross Road	Sqm	1	65.70	7.00		459.90		
	13th Cross Road	Sqm	1	64.90	6.95		451.06		
	13th Cross Road	Sqm	1	10.90	6.95		75.76		
	11th Cross Road	Sqm	1	17.90	7.10		127.09		
	Basic rate	12.00							
	Area weightage 6%	0.72							
	Sub Total	**12.72**							
	Total						**18957.60**	**12.72**	**241141.00**
18	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 507 of MORTH V revision using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-ll (30 mm to 45 mm) with 5.4% VG-30 Bitumen(P.No-162,I No-21.22.6)								
	Muniraju Layout								
	Main Road (WO294)	Cum	1	163.00	6.70	0.04	43.68		
	3rd Cross Road (WO521)	Cum	1	73.60	5.15	0.04	15.16		
	2nd Cross Road (W0523)	Cum	1	65.30	5.05	0.04	13.19		
	1st Cross Road (WO525)	Cum	1	56.30	4.75	0.04	10.70		
	4th Cross Road (W0517)	Cum	1	80.80	5.30	0.04	17.13		
	1st Cross Road (WO525)	Cum	1	73.50	4.95	0.04	14.55		
	2nd Cross Road(W0523)	Cum	1	66.20	4.90	0.04	12.98		
	3rd Cross Road (WO521)	Cum	1	56.40	5.10	0.04	11.51		
	4th Cross Road (W0517)	Cum	1	49.40	5.20	0.04	10.28		
	Cross Road	Cum	1	33.30	4.35	0.04	5.79		
	Sri Krishna Enclave	Cum	1	87.20	3.85	0.04	13.43		
	Patel Tayappa Layout	Cum	1	134.00	5.50	0.04	29.48		
	Sai Nagar Phase-1								
	1st Cross Road (W0562)	Cum	1	144.60	6.00	0.04	34.70		
	2nd Cross Road (W0556)	Cum	1	136.30	6.30	0.04	34.35		
	3rd Cross Road (WO554)	Cum	1	129.30	5.90	0.04	30.51		
	4th Cross Road (WO 440)	Cum	1	121.90	6.35	0.04	30.96		

Description of work	Unit	Mesurement				Qty	Rate	Amount
		No.	L	B	D			
Sai Baba Temple Road (WO793)	Cum	1	241.70	6.15	0.04	59.46		
# 61 Maathru Sri Nilaya (WO434)	Cum	1	44.10	4.50	0.04	7.94		
Sai Mandir Left Side Road	Cum	1	35.10	4.95	0.04	6.95		
Sai Mandira Right	Cum	1	39.30	5.00	0.04	7.86		
Sai Nagar Phase-III								
3rd Cross Road (W0785)	Cum	1	141.40	5.50	0.04	31.11		
4th Cross Road (W0779)	Cum	1	100.50	7.05	0.04	28.34		
Mahi Layout								
1st Main Road	Cum	1	135.00	6.80	0.04	36.72		
2nd Main Road	Cum	1	115.50	4.55	0.04	21.02		
Connecting Road -2	Cum	1	11.90	6.50	0.04	3.10		
Connecting Road -1	Cum	1	25.20	5.50	0.04	5.55		
3rd Main Road	Cum	1	54.90	6.40	0.04	14.06		
Cross Road -1	Cum	1	22.10	5.70	0.04	5.04		
Cross Road -2	Cum	1	26.40	5.55	0.04	5.86		
Main Road	Cum	1	278.90	5.20	0.04	58.06		
Ananthpura								
13th Cross Road	Cum	1	147.20	5.70	0.04	33.56		
Cross Road	Cum	1	47.00	6.70	0.04	12.60		
Century Saras Road (W0128)	Cum	1	88.00	8.50	0.04	29.92		
Ambabhavani Layout								
11th Cross Road	Cum	1	64.10	7.10	0.04	18.20		
12th Cross Road	Cum	1	65.70	7.00	0.04	18.40		
13th Cross Road	Cum	1	64.90	6.95	0.04	18.04		
13th Cross Road	Cum	1	10.90	6.95	0.04	3.03		
11th Cross Road	Cum	1	17.90	7.10	0.04	5.08		
Basic rate	7972.00							
Area weightage 6%	478.32							
Sub Total	**8450.32**							
Total						**758.30**	**8450.32**	**6407912.00**

KSRRB M800-13.**Road Marking with Hot Applied Thermoplastic Compound** with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803(P.No-182,I No-24.15)

Muniraju Layout								
Main Road (WO294)	Sqm	2	163.00	0.10		32.60		
3rd Cross Road (WO521)	Sqm	2	73.60	0.10		14.72		
2nd Cross Road (W0523)	Sqm	2	65.30	0.10		13.06		
1st Cross Road (WO525)	Sqm	2	56.30	0.10		11.26		
4th Cross Road (W0517)	Sqm	2	80.80	0.10		16.16		
1st Cross Road (WO525)	Sqm	2	73.50	0.10		14.70		
2nd Cross Road(W0523)	Sqm	2	66.20	0.10		13.24		
3rd Cross Road (WO521)	Sqm	2	56.40	0.10		11.28		
4th Cross Road (W0517)	Sqm	2	49.40	0.10		9.88		
Sri Krishna Enclave	Sqm	2	87.20	0.10		17.44		
Patel Tayappa Layout	Sqm	2	134.00	0.10		26.80		
Sai Nagar Phase-1								
1st Cross Road (W0562)	Sqm	2	144.60	0.10		28.92		
2nd Cross Road (W0556)	Sqm	2	136.30	0.10		27.26		

No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
	3rd Cross Road (WO554)	Sqm	2	129.30	0.10		25.86		
	4th Cross Road (WO 440)	Sqm	2	121.90	0.10		24.38		
	Sai Baba Temple Road (WO793)	Sqm	2	241.70	0.10		48.34		
	# 61 Maathru Sri Nilaya (WO434)	Sqm	2	44.10	0.10		8.82		
	Sai Mandir Left Side Road	Sqm	2	35.10	0.10		7.02		
	Sai Mandira Right	Sqm	2	39.30	0.10		7.86		
	Sai Nagar Phase-III								
	3rd Cross Road (W0785)	Sqm	2	141.40	0.10		28.28		
	4th Cross Road (W0779)	Sqm	2	100.50	0.10		20.10		
	Mahi Layout								
	1st Main Road	Sqm	2	135.00	0.10		27.20		
	2nd Main Road	Sqm	2	115.50	0.10		23.10		
	Connecting Road -2	Sqm	2	11.90	0.10		2.38		
	Connecting Road -1	Sqm	2	25.20	0.10		5.04		
	3rd Main Road	Sqm	2	54.90	0.10		10.98		
	Cross Road -1	Sqm	2	22.10	0.10		4.42		
	Cross Road -2	Sqm	2	26.40	0.10		5.28		
	Main Road	Sqm	2	278.90	0.10		55.78		
	Ananthpura								
	13th Cross Road	Sqm	2	147.20	0.10		29.44		
	Century Saras Road (W0128)	Sqm	2	88.00	0.10		17.60		
	Basic rate	429.00							
	Area weightage 6%	25.74							
	Sub Total	**454.74**							
	Total						**589.20**	**454.74**	**267933.00**
20	KSRRB M800 Road markers/ Road stud , KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS (Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering thje lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/NH/33023/10-97-DO III Dt 11.06.1997.The height, width and length shall not exceed 50mm, 100mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree.The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30mm)from the body is to be a minimum value of 500kg. Fixing will be by drilling holes on the road for the shanks to go inside, without ails and using epoxy resin based adhesive as per manufacture's recommendation and complete as directed by the engineer.(P.No-187,I No-24.41)									
	Road Studs along Road Length								
	Raghavendra Medical Opposite Road (W0123)	m	3.00	278.00			834.00		
						Sub Total	**834.00**		
	Provide Studs for every 3m along Road length								
	Number of Studs along Road Length	Nos				**Total length/3**	**278.00**		
	Basic rate	337.00							
	Area weightage 6%	20.22							
	Sub Total	357.22							
	Total						**278.00**	**357.22**	**99308.00**

Description of work	Unit	Mesurement				Qty	Rate	Amount
		No.	L	B	D			
							Grand Total	96247502.00
							DPR Charges (1% of estimated cost)	1100000.00
							Project management And Consultancy Charges(1% of estimated cost)	1100000.00
							GST Charges (12% of estimated cost)	11549701.00
							Miscellenious and rounding	2797.00
							Total Amount	110000000.00
							RUPEES ELEVEN CRORE ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

RUDRAPRASAD CONSULTANTS
BANGALORE

Technical Sanction
Rs 1100.00 Lakhs only
Head of A/C P-3867
CER NO : 38 Dt: 26.08.2021

Administrative Sanction for Rs. 1100.00 lakh
Rupees Eleven Crores Only
is accorded under head P-3867
Restoration of 110 villages
roads Engg by BWSSB
Registered as CE No. 96 Subject
to conditions contained in enclosed memo
No. BBMP/EE/YNK-D/AS/96/21-22 Dt. 11/02/22

Executive